

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A method for pairing source and target volumes for the purpose of copying data from the source volume to the target volume, comprising the steps:

graphically depicting representations of storage resources in a single view;

selecting a pair of said storage resources using said single view, including identifying one of said pair as the source volume from which data are to be copied, and identifying the other of said pair as the target volume to which the data are to be copied;

after said pair have been selected and before copying any data from the source volume to the target volume, implementing checks to determine if said selected pair satisfy predefined rules; and

sending alert messages regarding said selected pair if said selected pair do not satisfy said predefined rules; and wherein:

after selecting said pair, the user is presented with a confirmation panel where the user can both view and change the volumes of said pair; and

the selecting step includes the further step of the user selecting multiple pairs of source and target volumes, and swapping the target volume in one pair with the target volume in another pair within said confirmation panel.

2. (Original) A method according to Claim 1, wherein said graphical depictions are side-by-side depictions in said single view of a logical configuration of the storage resources.

3. (Original) A method according to Claim 2, wherein said graphical depictions are hierarchical trees.

4. (Original) A method according to Claim 1, wherein:

the storage resources include a source subsystem having a multitude of source storage volumes, and a target subsystem having a multitude of target storage volumes; and

each of said pairs consists of one of the source storage volumes and one of the target storage volumes.

5. (Original) A method according to Claim 4, wherein the selecting step includes the steps of:

selecting a number of source storage volumes; and

selecting a number of target storage volumes; and wherein one of said checks ensures that the number of selected source storage volumes is equal to the number of selected target storage volumes.

6. (Original) A method according to Claim 5, wherein:

the step of selecting a number of source storage volumes includes the step of identifying a set of source storage volumes;

the step of selecting a number of target storage volumes includes the step of identifying a set of target storage volumes; and

the implementing step includes the step of, if the number of source storage volumes in said set thereof is not equal to the number of target storage devices in said set thereof, then displaying a message for indicating that said sets have unequal numbers of storage devices.

7. (Original) A method according to Claim 1, wherein the implementing step includes the step of also implementing error handling based on said predefined rules.

8. (Currently Amended) A system for pairing source and target volumes for the purpose of copying data from the source volume to the target volume, comprising:

means for graphically depicting representations of storage resources in a single view; and for selecting a pair of said storage resources using said single view, including identifying one of said pair as the source volume from which data are to be copied, and identifying the other of said pair as the target volume to which the data are to be copied;

means for implementing, after said pair have been selected and before copying any data from the source volume to the target volume, checks to determine if said selected pair satisfy predefined rules, and for sending alert messages regarding said selected pair if said selected pair do not satisfy said predefined rules; and wherein:

after selecting said pair, the user is presented with a confirmation panel where the user can both view and change the volumes of said pair; and

the means for graphically depicting includes means for selecting multiple pairs of source and target volumes, and swapping the target volume in one pair with the target volume in another pair within said confirmation panel.

9. (Original) A system according to Claim 8, wherein said graphical depictions are side-by-side depictions in said single view of a logical configuration of the storage resources.

10. (Original) A system according to Claim 8, wherein said graphical depictions are hierarchical trees.

11. (Original) A system according to Claim 8, wherein:

the storage resources include a source subsystem having a multitude of source storage volumes, and a target subsystem having a multitude of target storage volumes; and

each of said pairs consists of one of the source storage volumes and one of the target storage volumes.

12. (Original) A system according to Claim 11, wherein the means for selecting includes:

means for selecting a number of source storage volumes; and

means for selecting a number of target storage volumes; and wherein one of said checks ensures that the number of selected source storage volumes is equal to the number of selected target storage volumes.

13. (Original) A system according to Claim 12, wherein:

the means for selecting a number of source storage volumes includes means for identifying a set of source storage volumes;

the means for selecting a number of target storage volumes includes means for identifying a set of target storage volumes; and

the means for implementing includes means for displaying a message if the number of source storage volumes in said set thereof is not equal to the number of target storage devices in said set thereof, said message indicating that said sets have unequal numbers of storage devices.

14. (Currently Amended) A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for pairing source and target volumes for the purpose of copying data from the source volume to the target volume, said method steps comprising:

graphically depicting representations of storage resources in a single view;

selecting a pair of said storage resources using said single view, including identifying one of said pair as the source volume from which data are to be copied, and identifying the other of said pair as the target volume to which the data are to be copied;

after said pair have been selected and before copying any data from the source volume to the target volume, implementing checks to determine if said selected pair satisfy predefined rules; and

sending alert messages regarding said selected pair if said selected pair do not satisfy said predefined rules; and wherein:

after selecting said pair, the user is presented with a confirmation panel where the user can both view and change the volumes of said pair; and

the selecting step includes the further step of the user selecting multiple pairs of source and target volumes, and swapping the target volume in one pair with the target volume in another pair within said confirmation panel.

15. (Original) A program storage device according to Claim 14, wherein said graphical depictions are side-by-side depictions in said single view of a logical configuration of the storage resources.

16. (Original) A program storage device according to Claim 15, wherein said graphical depictions are hierarchical trees.

17. (Original) A program storage device according to Claim 14, wherein:

the storage resources include a source subsystem having a multitude of source storage volumes, and a target subsystem having a multitude of target storage volumes; and

each of said pairs consists of one of the source storage volumes and one of the target storage volumes.

18. (Original) A program storage device according to Claim 17, wherein the selecting step includes the steps of:

selecting a number of source storage volumes; and

selecting a number of target storage volumes; and wherein one of said checks ensures that the number of selected source storage volumes is equal to the number of selected target storage volumes.

19. (Original) A program storage device according to Claim 18, wherein:

the step of selecting a number of source storage volumes includes the step of identifying a set of source storage volumes;

the step of selecting a number of target storage volumes includes the step of identifying a set of target storage volumes; and

the implementing step includes the step of, if the number of source storage volumes in said set thereof is not equal to the number of target storage devices in said set thereof, then displaying a message for indicating that said sets have unequal numbers of storage devices.

20. (Currently Amended) A method according to Claim 1, wherein:

the selecting step includes the step of a user manually selecting said pair using said single view, including manually identifying said source volume and said target volume;

said storage resources are logical subsystems;

the user may only select volumes from one logical subsystem on a source side and one logical subsystem on a target side; and

if the user tries to select volumes from more than one logical subsystem on the source side, the user receives an error message stating that the user cannot choose volumes from more than one logical subsystem[[:]].

~~after selecting said pair, the user is presented with a confirmation panel where the user can both view and changes the volumes of said pair; and~~

~~the selecting step includes the further step of the user selecting multiple pairs of source and target volumes, and swapping the target volume in one pair with the target volume in another pair within said confirmation panel.~~

21. (New) A system according to Claim 8, wherein:

the means for graphically depicting includes means to enable a user to manually select said pair using said single view, including manually identifying said source volume and said target volume;

said storage resources are logical subsystems;

the user may only select volumes from one logical subsystem on a source side and one logical subsystem on a target side;

if the user tries to select volumes from more than one logical subsystem on the source side, the user receives an error message stating that the user cannot choose volumes from more than one logical subsystem;

after selecting said pair, the user is presented with a confirmation panel where the user can both view and changes the volumes of said pair; and

the means for graphically depicting further includes means to enable the user to select multiple pairs of source and target volumes, and to swap the target volume in one pair with the target volume in another pair within said confirmation panel.

22. (New) A program storage device according to Claim 14, wherein:

the selecting step includes the step of a user manually selecting said pair using said single view, including manually identifying said source volume and said target volume;

said storage resources are logical subsystems;

the user may only select volumes from one logical subsystem on a source side and one logical subsystem on a target side;

if the user tries to select volumes from more than one logical subsystem on the source side, the user receives an error message stating that the user cannot choose volumes from more than one logical subsystem;

after selecting said pair, the user is presented with a confirmation panel where the user can both view and changes the volumes of said pair; and

the selecting step includes the further step of the user selecting multiple pairs of source and target volumes, and swapping the target volume in one pair with the target volume in another pair within said confirmation panel.